**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ November 11, 2014**

**Pre-Algebra SHOW ALL WORK! Quiz 4**

Simplify by writing as a single power. Fractions must be in lowest terms – no decimals! Simplify means NO negative exponents as our final answer.

1.) 

2.) 

3.) 

4.) 

5.) 

6.) 

7.) ****

8.) ****

9.) ****

10.) 

11.) 

12.) 

13.) ****

14.) ****

15.) 

16.) ****

17.) 

18.) 

19.) 

20.) 

21.) What is the area of a square with the length of a side that equals ****?

22.) What is the area of the rectangle with the width of **** and the length ****?

23.) What is the perimeter of a regular octagon with the length of a side that equals ****? (Bonus Challenge question! Write answer as s single power!)